16

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION: VIDYARANYAPURA

Name of Work: *Estimate for Asphalting to Roads at Bharathnagara and Surrounding areas in Ward No. 11 (Kuvempunagara).*

Job Code: 011-20-000107

Estimated Cost: Rs. 30.00 Lakh(s)

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Estimate for Asphalting to Roads at Bharathnagara and Surrounding areas in Ward No. 11 (Kuvempunagara).**

	011-20-000107	P-3602				Estimate Cost:		3000000.00	
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **Page No. 143 / Item No. 19.1, PWD SR 2018-19**	Cum							
	For Drain Desilting								
	Bharathnagara 1st Cross near Pandu House		2	90.00	0.45	0.45	36.45		
	Main Road 1st Cross		2	95.00	0.45	0.45	38.48		
	2nd Cross		1	60.00	0.45	0.45	12.15		
	3rd Cross		1	75.00	0.45	0.45	15.19		
	Berm Cutting								
	Bharathnagara 1st Cross near Pandu House		2	90.00	0.90	0.25	40.50		
	Main Road 1st Cross		2	95.00	0.90	0.25	42.75		
	2nd Cross		2	60.00	0.90	0.25	27.00		
	3rd Cross		2	75.00	0.90	0.25	33.75		
							246.26	243.88	**60058.00**
	Basic Rate	130.00							
	Area Weightage @6%	7.80							
	Total	**137.80**							
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 / km= 38.08	38.08							
		243.88							
2	Removing and refixing stone slabs of drains and pointing in CM (1:3) **Page No. 27 / Item No. 5.33 PWD SR 2018-19**	Sqm							
	For Drain								
	Bharathnagara 1st Cross near Pandu House		2	90.00		1.35	243.00		
	Main Road 1st Cross		2	95.00		1.35	256.50		
	2nd Cross		1	60.00		1.35	81.00		
	3rd Cross		1	75.00		1.35	101.25		
							681.75		
	For Damage Portion Consider 35%						204.53		
							477.23	111.30	**53115.00**
	Basic Rate	105.00							
	Area Weightage @ 6%	6.30							
	Total	**111.30**							
3	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete **Page No. 27 / Item No. 5.31.1 PWD SR 2018-19**	Sqm							
	Damaged Slabs & Missing Slabs 35%		Vide Item No. 2				204.53		
	Basic Rate	700.00					**204.53**	742.00	**151758.00**
	Area Weightage @ 6%	42.00							
	Total	**742.00**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
4	KSRRB M2100-10. Providing and laying **Plain cement concrete of mix 1:3:6 with with OPC cement @ 220kgs, with crushed 40mm and down size** graded granite metal coarse aggregates @0.84cum and fine aggregates @ 0.56cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days complete as per specifications MORTH Specification No. 2100 **Item No. 27.18 Page No. 222, PWD SR 2018-19**	cum							
	Bharathnagara 1st Cross near Pandu House		2x2	90.00	0.20	0.15	10.80		
	Main Road 1st Cross		2x2	95.00	0.20	0.15	11.40		
	2nd Cross		2	60.00	0.20	0.15	3.60		
	3rd Cross		2	75.00	0.20	0.15	4.50		
							30.30	5421.90	**164284.00**
	Basic Rate	5115.00							
	Area Weightage @ 6%	306.90							
	Total	**5421.90**							
5	KSRB 5-14 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 **Page No. 27 / Item No. 5.26.2, PWD SR 2018-19**	Sqm							
	Bharathnagara 1st Cross near Pandu House		2x2	90.00		0.40	144.00		
	Main Road 1st Cross		2x2	95.00		0.40	152.00		
	2nd Cross		2	60.00		0.40	48.00		
	3rd Cross		2	75.00		0.40	60.00		
	Basic Rate	924.00					**404.00**	979.44	**395694.00**
	Area Weightage @ 6%	55.44							
	Total	**979.44**							
6	Providing and laying in position plain cement concrete of **mix 1:2:4 with cement @ 240kgs, with 20mm and down size** graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, for coping. Including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page. No. 255 / Item No. 34.11, PWD SR 2018-19**	cum							
	Bed Concrete								
	Bharathnagara 1st Cross near Pandu House		2	65.00	0.45	0.10	5.85		
	Main Road 1st Cross		2	55.00	0.45	0.10	4.95		
	2nd Cross		1	50.00	0.45	0.10	2.25		
	3rd Cross		1	45.00	0.45	0.10	2.03		
	Coping Concrete								
	Bharathnagara 1st Cross near Pandu House		2x2	90.00	0.20	0.10	7.20		
	Main Road 1st Cross		2x2	95.00	0.20	0.10	7.60		
	2nd Cross		2	60.00	0.20	0.10	2.40		
	3rd Cross		2	75.00	0.20	0.10	3.00		
	Basic Rate	5283.00					**35.28**	5599.98	**197539.00**

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Area Weightage @ 6%	316.98							
	Total	**5599.98**							
7	Providing precast slab of 100mm thick including cost of all materials, labour, curing, transportation, loading unloading, etc.,complete as per the direction of engineer in charge - (Data rate Approved). 2018-19 SR	Sqm							
	B S Slab Covering								
	Bharathnagara 1st Cross near Pandu House		2	90.00	0.90		162.00		
	Main Road 1st Cross		2	95.00	0.90		171.00		
	2nd Cross		1	60.00	0.90		54.00		
	3rd Cross		1	75.00	0.90		67.50	58.5	
	Basic Rate	2337.00					**454.50**	2337.00	**1062167.00**
							445.5		1041134
8	KSRRB 300-49. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by manual means without disturbing the base and stacking of the debris materials including cost of all labour charges complete as per specifications. MORTH / Chapter 3 **Page No. 146 / Item No. 19.55 PWD SR 2018-19**	Sqm							
	Bharathnagara 1st Cross near Pandu House		1	90.00	5.00		450.00		
	Main Road 1st Cross		1	95.00	5.00		475.00		
	Total Qty						**925.00**		
	Consider 35% of the Total Qty						**323.75**	95.40	**30886.00**
	Basic Rate	90.00							
	Area Weightage @ 6%	5.40							
	Total	**95.40**							
9	KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 **Page No. 155 / Item No. 20.18, PWD SR 2018-19**	Cum							
	Bharathnagara 1st Cross near Pandu House		1	90.00	5.00	0.23	103.50		
	Main Road 1st Cross		1	95.00	5.00	0.23	109.25		
	Total Qty						**212.75**		
	Consider 35% of the Total Qty						**74.46**	2001.28	**149020.00**
	Basic Rate	1888.00							
	Area Weightage @ 6%	113.28							
	Total	**2001.28**							
10	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification No. 502 **Page No. 158 / Item No. 21.6, PWD SR 2018-19**	Sqm							
	Bharathnagara 1st Cross near Pandu House		1	90.00	5.00		450.00		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Main Road 1st Cross		1	95.00	5.00		475.00		
	Total Qty						**925.00**		
	Consider 35% of the Total Qty						**323.75**	36.04	**11668.00**
	Basic Rate	34.00							
	Area Weightage @ 6%	2.04							
	Total	**36.04**							
11	KSRRB 500-11. Providing and laying **bituminous macadam** on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant, transporting the mixd material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, but excluding cost of primer / tack coat including lead, lift and cost of all materials, labour, HOM of machineries complete as per specifications. MORTH /Chapter 5 - using **40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 3.3 % VG-30 Bitumen Page No. 159 / Item No. 21.11.6,**	Cum		83.00					
	Bharathnagara 1st Cross near Pandu House		1	~~90.00~~	5.00	0.05	~~22.50~~	20.75	
	Main Road 1st Cross		1	~~95.00~~	5.00	0.05	~~23.75~~	20.75	
	Total Qty			83.00			~~46.25~~	41.50	
	Consider 35% of the Total Qty			5822.50			~~16.19~~	~~5551.22~~	~~89860.00~~
	Basic Rate	5237.00					14.52		89623.00
	Area Weightage @ 6%	314.22		3149.38					34
	Total	**5551.22**		6172.38					
12	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501 **Page No. 158 / Item No. 21.2, PWD SR 2018-19**	Sqm							
	Bharathnagara Main Road		1	90.00	5.00		450.00		
	Cross Road 1		1	95.00	5.00		475.00		
	Basic Rate	5.00					**925.00**	5.30	**4903.00**
	Area Weightage @ 6%	0.30							
	Total	**5.30**							
13	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5 **Page No. 158 / Item No. 21.7 PWD SR 2018-19**	Sqm							
			Qty Vide Item No. 16				925.00		
	asper Revised Basic Rate	14.00					**925.00**	14.84	**13727.00**
	Area Weightage @ 6%	0.84							
	Total	**14.84**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
14	KSRRB M500-19. Providing and laying **bituminous concrete 40 mm thick** with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. MORTH Specification No. 509 - **using 40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 6 % VG-30 Bitumen Page No. 162 / Item No. 21.22.6, PWD SR 2018-19**	Cum		81.00					
	Bharathnagara 1st Cross near Pandu House		1	~~90.00~~	5.00	0.040	~~18.00~~	16.20	
	Main Road 1st Cross		1	~~95.00~~ 81.00	5.00	0.040	~~19.00~~	16.20	
	Revised Basic Rate	7464.00					~~37.00~~ 3472.00	7911.84	~~292738.00~~
	Area Weightage @ 6%	447.84					32.40	8980.32	290962.00
	Total	~~7911.84~~ 8980.32		508.32 8980.32					~~2677417.00~~ 2675404.00
	Sub Total						2654402		~~2677417.00~~
	GST @ 12%						321048		~~323290.00~~
	Miscellaneous and other Charges	L/S					318528	3548.00	~~4293.00~~
							26544	Total	3000000.00
	Rupees Thirty Lakh(s) Only						526		

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.

2 This estimate is prepared as per PWD SR of 2018-19.

3 The provisions were made in this estimate are necessary and adequate.

4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 11

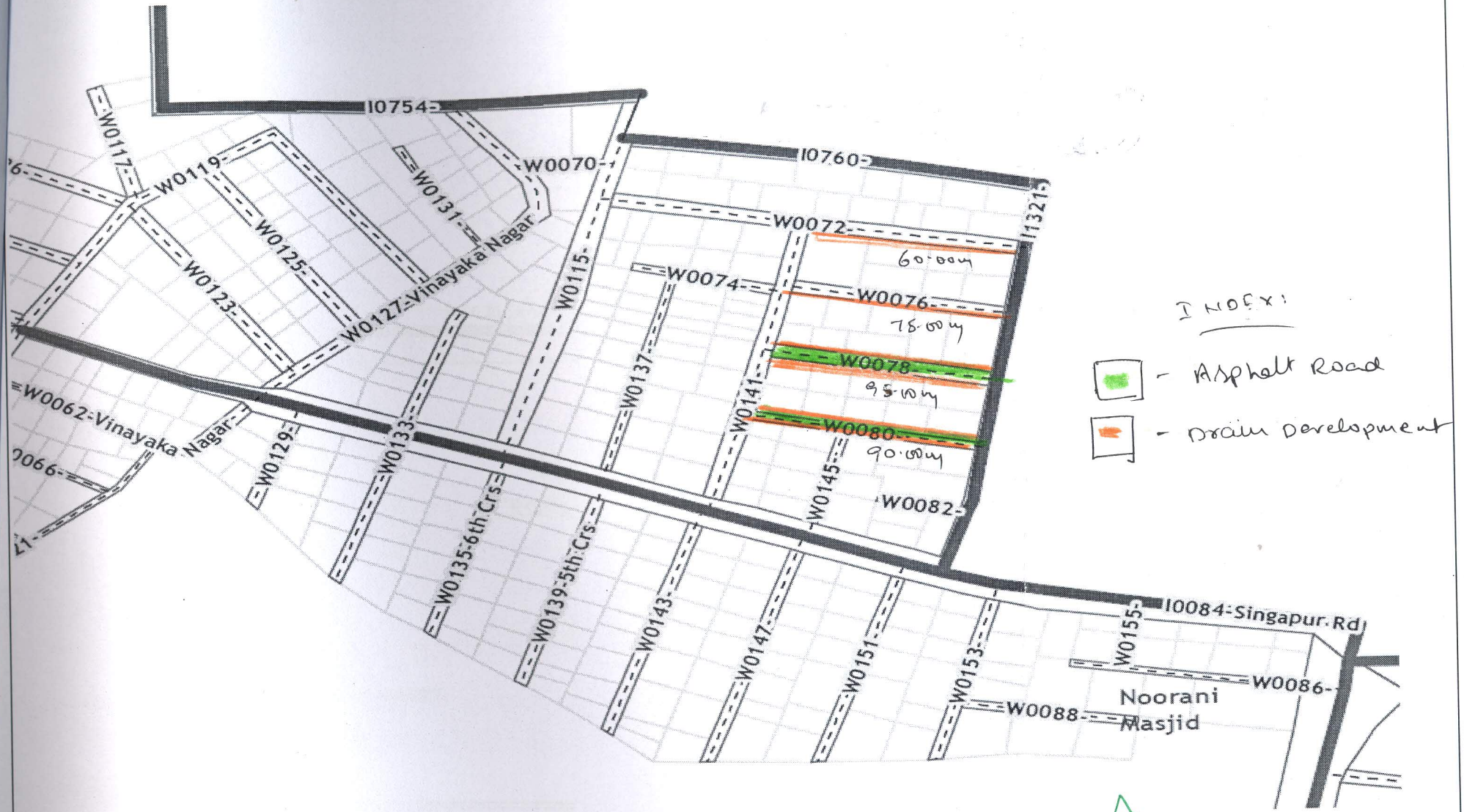
Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidayranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Administrative Approval
Accorded For R.S.30 no. laache only
Head of A/C. 13602
CER NO : 257 Dt: 27.03.2020
TA
CE (YNK)

Technical Sanction
Accorded For R.S.30 no. laache only
Head of A/C. D36.02
CER NO : 367 Dt: 27.03.2020
TA
CE (YNK)

Name of work : Asphalting to Roads at Bharathnagara and Surrounding areas in Ward No. 11 (Kuvempunagara).



Assistant Engineer
Ward No 11

Assistant Executive Engineer
Vidyaranyapura Sub Division

(8)

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION: VIDYARANYAPURA

Name of Work: *Estimate for Asphalting to Roads at Kuvempunagara and Surrounding areas in Ward No. 11 (Kuvempunagara).*

Job Code: 011-20-000108

Estimated Cost: Rs. 30.00 Lakh(s)

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Estimate for Asphalting to Roads at Kuvempunagara and Surrounding areas in Ward No. 11 (Kuvempunagara).**

	011-20-000108	P-3602			Estimate Cost:		3000000.00		
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **Page No. 143 / Item No. 19.1, PWD SR 2018-19**	Cum							
	For Drain Desilting								
	Kuvempunagara Govt School Road Vinayaka Provision Store		2	95.00	0.45	0.45	38.48		
	Durvika Finance Store 2nd Cross		2	70.00	0.45	0.45	28.35		
	4th Cross Masti Venkatesh Ayanger Road		2	90.00	0.45	0.45	36.45		
	Berm Cutting								
	Kuvempunagara Govt School Road Vinayaka Provision Store		2	95.00	0.90	0.25	42.75		
	Durvika Finance Store 2nd Cross		2	70.00	0.90	0.25	31.50		
	4th Cross Masti Venkatesh Ayanger Road		2	90.00	0.90	0.25	40.50		
							218.03	243.88	**53172.00**
	Basic Rate	130.00							
	Area Weightage @6%	7.80							
	Total	**137.80**							
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 / km= 38.08	38.08							
		243.88							
2	Removing and refixing stone slabs of drains and pointing in CM (1:3) **Page No. 27 / Item No. 5.33 PWD SR 2018-19**	Sqm							
	BS Slab Drain								
	Kuvempunagara Govt School Road Vinayaka Provision Store		2	95.00		1.35	256.50		
	Durvika Finance Store 2nd Cross		2	70.00		1.35	189.00		
	4th Cross Masti Venkatesh Ayanger Road		2	90.00		1.35	243.00		
	BS Slab Drain Covering Slab						**688.50**		
	Deduct 35% for Damage Portion						251.30		
	Consider 25% of the Total Qty						**437.20**	111.30	**48660.00**
	Basic Rate	105.00							
	Area Weightage @ 6%	6.30							
	Total	**111.30**							
3	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete **Page No. 27 / Item No. 5.31.1 PWD SR 2018-19**	Sqm							
	Damaged Slabs & Missing Slabs 35%		Vide Item No. 2				251.30		
	Basic Rate	700.00					**251.30**	742.00	**186466.00**
	Area Weightage @ 6%	42.00							
	Total	**742.00**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
4	KSRRB M2100-10. Providing and laying **Plain cement concrete of mix 1:3:6 with with OPC cement @ 220kgs, with crushed 40mm and down size** graded granite metal coarse aggregates @0.84cum and fine aggregates @ 0.56cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days complete as per specifications MORTH Specification No. 2100 **Item No. 27.18 Page No. 222, PWD SR 2018-19**	cum							
	Kuvempunagara Govt School Road Vinayaka Provision Store		2x2	95.00	0.20	0.15	11.40		
	Durvika Finance Store 2nd Cross		2x2	70.00	0.20	0.15	8.40		
	4th Cross Masti Venkatesh Ayanger Road		2x2	90.00	0.20	0.15	10.80		
							30.60	5421.90	**165910.00**
	Basic Rate	5115.00							
	Area Weightage @ 6%	306.90							
	Total	**5421.90**							
5	KSRB 5-14 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 **Page No. 27 / Item No. 5.26.2, PWD SR 2018-19**	Sqm							
	Kuvempunagara Govt School Road Vinayaka Provision Store		2x2	95.00		0.40	152.00		
	Durvika Finance Store 2nd Cross		2x2	70.00		0.40	112.00		
	4th Cross Masti Venkatesh Ayanger Road		2x2	90.00		0.40	144.00		
	Basic Rate	924.00					**408.00**	979.44	**399612.00**
	Area Weightage @ 6%	55.44							
	Total	**979.44**							
6	KSRB 4-1.6 ; Providing and laying in position **plain cement concrete of mix 1:2:4** with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation, plinth and cills**, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.13, Item No. 4.6 PWD SR 2018-19**	Cum							
	Bed Concrete								
	Kuvempunagara Govt School Road Vinayaka Provision Store		2	60.00	0.45	0.10	5.40		
	Durvika Finance Store 2nd Cross		2	55.00	0.45	0.10	4.95		
	4th Cross Masti Venkatesh Ayanger Road		2	50.00	0.45	0.10	4.50		
	Coping Concrete								
	Kuvempunagara Govt School Road Vinayaka Provision Store		2x2	95.00	0.20	0.10	7.60		
	Durvika Finance Store 2nd Cross		2x2	70.00	0.20	0.10	5.60		
	4th Cross Masti Venkatesh Ayanger Road		2x2	90.00	0.20	0.10	7.20		
	Basic Rate	5422.00					**35.25**	5747.32	**202593.00**
	Area Weightage @ 6%	325.32							
	Total	**5747.32**							
7	Providing **precast slab of 100mm thick** including cost of all materials, labour, curing, transportation, loading unloading, etc.,complete as per the direction of engineer in charge - (Data rate Approved).	Sqm							
	B S Slab Covering								
	Kuvempunagara Govt School Road Vinayaka Provision Store		2	95.00	0.90		171.00		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Durvika Finance Store 2nd Cross		2	70.00	0.90		126.00		
	Cross Masti Venkatesh Ayanger Road		2	~~90.00~~ 85	0.90		~~462.00~~ 153		1057650
							~~459.00~~ 450	2337.00	~~1072683.00~~
8	KSRRB 300-49. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by manual means without disturbing the base and stacking of the debris materials including cost of all labour charges complete as per specifications. MORTH / Chapter 3 **Page No. 146 / Item No. 19.55 PWD SR 2018-19**	Sqm							
	Kuvempunagara Govt School Road Vinayaka Provision Store		1	95.00	5.50		522.50		
	Durvika Finance Store 2nd Cross		1	70.00	4.50		315.00		
	Total Qty						**837.50**		
	Consider 35% of the Total Qty						**293.13**	95.40	**27964.00**
	Basic Rate	90.00							
	Area Weightage @ 6%	5.40							
	Total	**95.40**							
9	KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 **Page No. 155 / Item No. 20.18, PWD SR 2018-19**	Cum							
	Kuvempunagara Govt School Road Vinayaka Provision Store		1	95.00	5.50	0.25	130.63		
	Durvika Finance Store 2nd Cross		1	70.00	4.50	0.25	78.75		
	Total Qty						**209.38**		
	Consider 35% of the Total Qty						**73.28**	2001.28	**146656.00**
	Basic Rate	1888.00							
	Area Weightage @ 6%	113.28							
	Total	**2001.28**							
10	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification No. 502 **Page No. 158 / Item No. 21.6, PWD SR 2018-19**	Sqm							
	Kuvempunagara Govt School Road Vinayaka Provision Store		1	95.00	5.50		522.50		
	Durvika Finance Store 2nd Cross		1	70.00	4.50		315.00		
	Total Qty						**837.50**		
	Consider 35% of the Total Qty						**293.13**	36.04	**10564.00**
	Basic Rate	34.00							
	Area Weightage @ 6%	2.04							
	Total	**36.04**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
11	KSRRB 500-11. Providing and laying **bituminous macadam** on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant, transporting the mixd material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, but excluding cost of primer / tack coat including lead, lift and cost of all materials, labour, HOM of machineries complete as per specifications. MORTH /Chapter 5 - using **40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 3.3 % VG-30 Bitumen Page No. 159 / Item No. 21.11.6, PWD SR 2018-19**	Cum		79.00			21.72		
	Kuvempunagara Govt School Road Vinayaka Provision Store		1	~~05.00~~	5.50	0.05	~~26.13~~		
	Durvika Finance Store 2nd Cross		1	70.00	4.50	0.05	15.75		
	Total Qty						~~41.88~~	37.47	
	Consider 35% of the Total Qty						~~14.66~~	5551.22	~~84360.00~~
	Basic Rate	5237.00					13.11	6172.38	80,920.00
	Area Weightage @ 6%	314.22							
	Total	~~5551.22~~							
12	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501 **Page No. 158 / Item No. 21.2, PWD SR 2018-19**	Sqm							
	Kuvempunagara Govt School Road Vinayaka Provision Store		1	95.00	5.50		522.50		
	Durvika Finance Store 2nd Cross		1	70.00	4.50		315.00		
	Total Qty						**837.50**	5.30	**4439.00**
	Basic Rate	5.00							
	Area Weightage @ 6%	0.30							
	Total	**5.30**							
13	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5 **Page No. 158 / Item No. 21.7 PWD SR 2018-19**	Sqm							
				Qty Vide Item No. 12			837.50		
	asper Revised Basic Rate	14.00					**837.50**	14.84	**12429.00**
	Area Weightage @ 6%	0.84							
	Total	**14.84**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
14	KSRRB M500-19. Providing and laying **bituminous concrete 40 mm thick** with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. MORTH Specification No. 509 - **using 40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 6 % VG-30 Bitumen Page No. 162 / Item No. 21.22.6, PWD SR 2018-19**	Cum		77.00			16.94		
	Kuvempunagara Govt School Road Vinayaka Provision Store		1	~~95.00~~	5.50	0.040	~~20.90~~		
	Durvika Finance Store 2nd Cross		1	70.00	4.50	0.040	12.60		
	Revised Basic Rate	7464.00					~~33.50~~	7911.84	~~265047.00~~
	Area Weightage @ 6%	447.84							
	Total	~~7911.84~~							
	Sub Total								~~2677555.00~~
	GST @ 12%								~~321307.00~~
	Miscellaneous and other Charges	L/S							~~1138.00~~
								Total	3000000.00
	Rupees Thirty Lakh(s) Only								

8472.00
29.54 8980.32
2,65,279.00
8980.32
508.32
8980.32
26,77,247.00
2654322
3,21,282.00
318519
26573
816
30,00,000 - 00
39

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2018-19.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidayranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

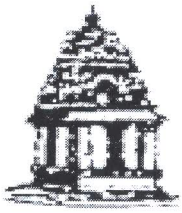
Administrative Approval
Accorded For RS 30 : Wlaschenly
Head of A/C P3602
CER NO : 368 Dt: 27.03.2020
TA
CE (YNK)

Technical Sanction
Accorded For RS 30 : Wlaschenly
Head of A/C P3602
CER NO 368 Dt: 27.03.2020
TA
CE (YNK)

Name of Work: Asphalting to Roads at Kuvempunagara and Surrounding areas in Ward No. 11 (Kuvempunagara).

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Vidyaranyapura Sub Division



BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION: VIDYARANYAPURA

Name of Work: *Estimate for Asphalting to Roads at Singapura and Surrounding areas in Ward No. 11 (Kuvempunagara).*

Job Code: 011-20-000106

Estimated Cost: Rs. 25.00 Lakh(s)

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Estimate for Asphalting to Roads at Singapura and Surrounding areas in Ward No. 11 (Kuvempunagara).**

	011-20-000106	P-3602				Estimate Cost:			2500000.00
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **Page No. 143 / Item No. 19.1, PWD SR 2018-19**	Cum							
	For Drain Desilting								
	4th Cross opp Anjaneya Temple		2	90.00	0.45	0.45	36.45		
	Sri Adya Bakery		2	85.00	0.45	0.40	30.60		
	3rd Main near MES School		2	75.00	0.45	0.40	27.00		
	Berm Cutting								
	4th Cross opp Anjaneya Temple		2	90.00	0.90	0.15	24.30		
	Sri Adya Bakery		2	85.00	0.90	0.15	22.95		
	3rd Main near MES School		2	75.00	0.90	0.15	20.25		
							161.55	243.88	**39399.00**
	Basic Rate	130.00							
	Area Weightage @6%	7.80							
	Total	**137.80**							
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 / km= 38.08	38.08							
		243.88							
2	Removing and refixing stone slabs of drains and pointing in CM (1:3) **Page No. 27 / Item No. 5.33 PWD SR 2018-19**	Sqm							
	BS Slab Drain								
	4th Cross opp Anjaneya Temple		2	90.00		1.35	243.00		
	Sri Adya Bakery		2	85.00		1.35	229.50		
	3rd Main near MES School		2	75.00		1.35	202.50		
							675.00		
	Deduct for Damage Portion 30%						189.00		
	Basic Rate	105.00					**486.00**	111.30	**54092.00**
	Area Weightage @ 6%	6.30							
	Total	**111.30**							
3	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete **Page No. 27 / Item No. 5.31.1 PWD SR 2018-19**	Sqm							
	Damaged Slabs & Missing Slabs 30%		Vide Item No. 2				189.00		
	Basic Rate	700.00					**189.00**	742.00	**140238.00**
	Area Weightage @ 6%	42.00							
	Total	**742.00**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
4	KSRRB M2100-10. Providing and laying **Plain cement concrete of mix 1:3:6 with with OPC cement @ 220kgs, with crushed 40mm and down size** graded granite metal coarse aggregates @0.84cum and fine aggregates @ 0.56cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days complete as per specifications MORTH Specification No. 2100 **Item No. 27.18 Page No. 222. PWD SR 2018-19**	cum							
	4th Cross opp Anjaneya Temple		2x2	90.00	0.20	0.15	10.80		
	Sri Adya Bakery		2x2	85.00	0.20	0.15	10.20		
	3rd Main near MES School		2x2	75.00	0.20	0.15	9.00		
							30.00	5421.90	**162657.00**
	Basic Rate	5115.00							
	Area Weightage @ 6%	306.90							
	Total	**5421.90**							
8	KSRB 5-14 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 **Page No. 27 / Item No. 5.26.2, PWD SR 2018-19**	Sqm							
	4th Cross opp Anjaneya Temple		2x2	90.00		0.40	144.00		
	Sri Adya Bakery		2x2	85.00		0.40	136.00		
	3rd Main near MES School		2x2	75.00		0.40	120.00		
	Basic Rate	924.00					**400.00**	979.44	**391776.00**
	Area Weightage @ 6%	55.44							
	Total	**979.44**							
9	Providing and laying in position plain cement concrete of **mix 1:2:4 with cement @ 240kgs, with 20mm and down size** graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, for coping. Including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page. No. 255 / Item No. 34.11, PWD SR 2018-19**	cum							
	Bed Concrete								
	4th Cross opp Anjaneya Temple		2	60.00	0.45	0.10	5.40		
	Sri Adya Bakery		2	55.00	0.45	0.10	4.95		
	3rd Main near MES School		2	60.00	0.45	0.10	5.40		
	Coping Concrete								
	4th Cross opp Anjaneya Temple		2x2	90.00	0.20	0.10	7.20		
	Sri Adya Bakery		2x2	85.00	0.20	0.10	6.80		
	3rd Main near MES School		2x2	75.00	0.20	0.10	6.00		
	Basic Rate	5283.00					**35.75**	5599.98	**200199.00**
	Area Weightage @ 6%	316.98							
	Total	**5599.98**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
10	Providing precast slab of 100mm thick including cost of all materials, labour, curing, transportation, loading unloading, etc.,complete as per the direction of engineer in charge - (Data rate Approved). 2018-19 SR	Sqm							
	4th Cross opp Anjaneya Temple		2	90.00	0.90		162.00		
	Sri Adya Bakery		2	85.00	0.90		153.00		
	3rd Main near MES School		2	75.00	0.90		~~135.00~~	126	1080617
	Basic Rate	2337.00					~~450.00~~	2337.00	~~1051650.00~~
							144		
12	KSRRB 300-49. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by manual means without disturbing the base and stacking of the debris materials including cost of all labour charges complete as per specifications. MORTH / Chapter 3 **Page No. 146 / Item No. 19.55 PWD SR 2018-19**	Sqm							
	4th Cross opp Anjaneya Temple		1	75.00	5.00		375.00		
	Total Qty						**375.00**		
	Consider 20% of the Total Qty						**75.00**	95.40	**7155.00**
	Basic Rate	90.00							
	Area Weightage @ 6%	5.40							
	Total	**95.40**							
13	KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 **Page No. 155 / Item No. 20.18, PWD SR 2018-19**	Cum							
	4th Cross opp Anjaneya Temple		1	75.00	5.00	0.23	86.25		
	Total Qty						**86.25**		
	Consider 20% of the Total Qty						**17.25**	2001.28	**34522.00**
	Basic Rate	1888.00							
	Area Weightage @ 6%	113.28							
	Total	**2001.28**							
14	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification No. 502 **Page No. 158 / Item No. 21.6, PWD SR 2018-19**	Sqm							
	4th Cross opp Anjaneya Temple		1	75.00	5.00		375.00		
	Total Qty						**375.00**		
	Consider 20% of the Total Qty						**75.00**	36.04	**2703.00**
	Basic Rate	34.00							
	Area Weightage @ 6%	2.04							
	Total	**36.04**							

	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	KSRRB 500-11. Providing and laying **bituminous macadam** on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant, transporting the mixd material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, but excluding cost of primer / tack coat including lead, lift and cost of all materials, labour, HOM of machineries complete as per specifications. MORTH /Chapter 5 - using **40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 3.3 % VG-30 Bitumen Page No. 159 / Item No. 21.11.6, PWD SR 2018-19**	Cum		68.00					
	4th Cross opp Anjaneya Temple		1	~~75.00~~	5.00	0.05	~~18.75~~	17.50	
	Total Qty						~~18.75~~	17.00	
	Consider 20% of the Total Qty			5823.00			~~3.75~~	~~5551.22~~	~~20817.00~~
	Basic Rate	5237.00					3.400	6172.38	
	Area Weightage @ 6%	~~314.22~~		349.38					20986.00
	Total	~~5551.22~~		6172.38					
16	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501 **Page No. 158 / Item No. 21.2, PWD SR 2018-19**	Sqm							
	Singapura Main Road		1	75.00	5.00		375.00		
	Basic Rate	5.00					**375.00**	5.30	**1988.00**
	Area Weightage @ 6%	0.30							
	Total	**5.30**							
17	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5 **Page No. 158 / Item No. 21.7 PWD SR 2018-19**	Sqm							
			Qty Vide Item No. 16				375.00		
	asper Revised Basic Rate	14.00					**375.00**	14.84	**5565.00**
	Area Weightage @ 6%	0.84							
	Total	**14.84**							

	Description	Unit	No.	L	B	D	Qty	Rate	Amount
3	KSRRB M500-19. Providing and laying **bituminous concrete 40 mm thick** with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. MORTH Specification No. 509 - **using 40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 6 % VG-30 Bitumen Page No. 162 / Item No. 21.22.6, PWD SR 2018-19**	Cum		66.50			13.20		
	4th Cross opp Anjaneya Temple		1	~~75.00~~	5.00	0.040	~~15.00~~		118540.00
	Revised Basic Rate	7464.00		8472.00			~~15.00~~	~~7911.84~~	~~118678.00~~
	Area Weightage @ 6%	447.84						8980.32	
	Total	**7911.84**		508.32					2212193
				8980.32					2231470.00
	Sub Total						265462		**2231439.00**
	GST @ 12%						32122		**267774.00**
	Miscellaneous and other Charges	L/S					22		~~788.00~~ 754.00
								Total	**2500000.00**
	Rupees Twenty Five Lakh(s) Only								

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2018-19.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidayranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Administrative Approval
Accorded For Rs 25 wlarche only
Head of A/C P3602
CER NO : 256 Dt: 27.03.2020

TA CE (YNK)

Technical Sanction
Accorded For Rs 25 wlarche only
Head of A/C P3602
CER NO : 366 Dt 29.03.2020

TA CE (YNK)

Name Of Work: Asphalting to Roads at Singapura and Surrounding areas in Ward No. 11 (Kuvempunagara).

Assistant Engineer
Ward No.11

Assistant Executive Engineer
Vidyaranyapura Sub Division.

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION: VIDYARANYAPURA

Name of Work: *Estimate for Asphalting to Roads at Balaji Layout and Surrounding areas in Ward No. 11 (Kuvempunagara).*

Job Code: 011-20-000105

Estimated Cost: Rs. 25.00 Lakh(s)

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Estimate for Asphalting to Roads at Balaji Layout and Surrounding areas in Ward No. 11 (Kuvempunagara).**

	011-20-000105	P-3602			Estimate Cost:		2500000.00		
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **Page No. 143 / Item No. 19.1, PWD SR 2018-19**	Cum							
	For Drain Desilting								
	2nd A Main Balaji Layout		2	70.00	0.45	0.45	28.35		
	2nd A Main1 st Cross Balaji Layout		2	65.00	0.45	0.45	26.33		
	4th A Main Road		2	90.00	0.45	0.45	36.45		
	Berm Cutting								
	2nd A Main Balaji Layout		2	70.00	0.90	0.20	25.20		
	2nd A Main1 st Cross Balaji Layout		2	65.00	0.90	0.25	29.25		
	4th A Main Road		2	90.00	0.90	0.25	40.50		
							186.08	243.88	**45380.00**
	Basic Rate	130.00							
	Area Weightage @6%	7.80							
	Total	**137.80**							
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 / km= 38.08	38.08							
		243.88							
2	Removing and refixing stone slabs of drains and pointing in CM (1:3) **Page No. 27 / Item No. 5.33 PWD SR 2018-**	Sqm							
	BS Slab Drain								
	2nd A Main Balaji Layout		2	70.00		1.35	189.00		
	2nd A Main1 st Cross Balaji Layout		2	65.00		1.35	175.50		
	4th A Main Road		2	90.00		1.35	243.00		
							607.50		
	Deduct 30 % of Damaged Portion						194.40		
	Total Qty						**413.10**	**111.30**	**45978.00**
	Basic Rate	105.00							
	Area Weightage @ 6%	6.30							
	Total	**111.30**							
3	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete **Page No. 27 / Item No. 5.31.1 PWD SR 2018-19**	Sqm							
	Damaged Slabs & Missing Slabs 35%		Vide Item No. 2				194.40		
	Basic Rate	700.00					**194.40**	742.00	**144245.00**
	Area Weightage @ 6%	42.00							
	Total	**742.00**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
4	KSRRB M2100-10. Providing and laying **Plain cement concrete of mix 1:3:6 with with OPC cement @ 220kgs, with crushed 40mm and down size** graded granite metal coarse aggregates @0.84cum and fine aggregates @ 0.56cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days complete as per specifications MORTH Specification No. 2100 **Item No. 27.18 Page No. 222. PWD SR 2018-19**	cum							
	2nd A Main Balaji Layout		2x2	70.00	0.20	0.15	8.40		
	2nd A Main1 st Cross Balaji Layout		2x2	65.00	0.20	0.15	7.80		
	4th A Main Road		2x2	90.00	0.20	0.15	10.80		
	Basic Rate	5115.00					**27.00**	5421.90	**146391.00**
	Area Weightage @ 6%	306.90							
	Total	**5421.90**							
5	KSRB 5-14 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 **Page No. 27 / Item No. 5.26.2, PWD SR 2018-19**	Sqm							
	2nd A Main Balaji Layout		2x2	70.00		0.40	112.00		
	2nd A Main1 st Cross Balaji Layout		2x2	65.00		0.40	104.00		
	4th A Main Road		2x2	90.00		0.40	144.00		
	Basic Rate	924.00					**360.00**	979.44	**352598.00**
	Area Weightage @ 6%	55.44							
	Total	**979.44**							
6	Providing and laying in position plain cement concrete of **mix 1:2:4 with cement @ 240kgs, with 20mm and down size** graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, for coping. Including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page. No. 255 / Item No. 34.11, PWD SR 2018-19**	cum							
	Bed Concrete								
	2nd A Main Balaji Layout		2	35.00	0.45	0.10	3.15		
	2nd A Main1 st Cross Balaji Layout		2	30.00	0.45	0.10	2.70		
	4th A Main Road		2	55.00	0.45	0.10	4.95		
	Coping Concrete								
	2nd A Main Balaji Layout		2x2	70.00	0.20	0.10	5.60		
	2nd A Main1 st Cross Balaji Layout		2x2	65.00	0.20	0.10	5.20		
	4th A Main Road		2x2	90.00	0.20	0.10	7.20		
	Basic Rate	5283.00					**28.80**	5599.98	**161279.00**
	Area Weightage @ 6%	316.98							
	Total	**5599.98**							
7	Providing precast slab of 100mm thick including cost of all materials, labour, curing, transportation, loading unloading, etc.,complete as per the direction of engineer in charge - (Data rate Approved). 2018-19 SR	Sqm							
	Covering Slab								
	2nd A Main Balaji Layout		2	70.00		0.90	126.00		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	2nd A Main1 st Cross Balaji Layout		2	65.00		0.90	117.00		
	4th A Main Road		2	90.00		0.90	162.00		
	Basic Rate	2337.00					**405.00**	2337.00	**946485.00**
8	KSRRB 300-49. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by manual means without disturbing the base and stacking of the debris materials including cost of all labour charges complete as per specifications. MORTH / Chapter 3 **Page No. 146 / Item No. 19.55 PWD SR 2018-19**	Sqm							
	2nd A Main Balaji Layout		1	70.00	4.50		315.00		
	2nd A Main1 st Cross Balaji Layout		1	65.00	4.50		292.50		
	Total Qty						**607.50**		
	Consider 35% of the Total Qty						**212.63**	95.40	**20284.00**
	Basic Rate	90.00							
	Area Weightage @ 6%	5.40							
	Total	**95.40**							
9	KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 **Page No. 155 / Item No. 20.18, PWD SR 2018-19**	Cum							
	2nd A Main Balaji Layout		1	70.00	4.50	0.23	72.45		
	2nd A Main1 st Cross Balaji Layout		1	65.00	4.50	0.23	67.28		
	Total Qty						**139.73**		
	Consider 35% of the Total Qty						**48.90**	2001.28	**97870.00**
	Basic Rate	1888.00							
	Area Weightage @ 6%	113.28							
	Total	**2001.28**							
10	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification No. 502 **Page No. 158 / Item No. 21.6, PWD SR 2018-19**	Sqm							
	2nd A Main Balaji Layout		1	70.00	4.50		315.00		
	2nd A Main1 st Cross Balaji Layout		1	65.00	4.50		292.50		
	Total Qty						**607.50**		
	Consider 35% of the Total Qty						**212.63**	36.04	**7663.00**
	Basic Rate	34.00							
	Area Weightage @ 6%	2.04							
	Total	**36.04**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
11	KSRRB 500-11. Providing and laying **bituminous macadam** on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant, transporting the mixd material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, but excluding cost of primer / tack coat including lead, lift and cost of all materials, labour, HOM of machineries complete as per specifications. MORTH /Chapter 5 - using **40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 3.3 % VG-30 Bitumen Page No. 159 / Item No. 21.11.6, PWD SR 2018-19**	Cum							
	2nd A Main Balaji Layout		1	70.00	4.50	0.05	15.75		
	2nd A Main1 st Cross Balaji Layout		1	65.00	4.50	0.05	14.63		
	Total Qty						**30.38**		
	Consider 35% of the Total Qty						**10.63**	5551.22	**59016.00**
	Basic Rate	5237.00							
	Area Weightage @ 6%	314.22							
	Total	**5551.22**							
12	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501 **Page No. 158 / Item No. 21.2, PWD SR 2018-19**	Sqm							
	2nd A Main Balaji Layout		1	70.00	4.50		315.00		
	2nd A Main1 st Cross Balaji Layout		1	65.00	4.50		292.50		
	Total Qty						**607.50**	5.30	**3220.00**
	Basic Rate	5.00							
	Area Weightage @ 6%	0.30							
	Total	**5.30**							
13	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5 **Page No. 158 / Item No. 21.7 PWD SR 2018-19**	Sqm							
				Qty Vide Item No. 8			607.50		
	asper Revised Basic Rate	14.00					**607.50**	14.84	**9015.00**
	Area Weightage @ 6%	0.84							
	Total	**14.84**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
14	KSRRB M500-19. Providing and laying **bituminous concrete 40 mm thick** with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. MORTH Specification No. 509 - **using 40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 6 % VG-30 Bitumen Page No. 162 / Item No. 21.22.6, PWD SR 2018-19**	Cum							
	2nd A Main Balaji Layout		1	~~70.00~~	4.50	0.040	~~12.60~~	~~10.62~~	
	2nd A Main1 st Cross Balaji Layout		1	~~65.00~~	4.50	0.040	~~11.70~~	~~10.62~~	
	Revised Basic Rate	7464.00		~~59.80~~			~~24.30~~	7911.84	**192258.00**
	Area Weightage @ 6%	~~447.84~~							
	Total	**~~7911.84~~**							
	Sub Total								**~~2231682.00~~**
	GST @ 12%								**~~267802.00~~**
	Miscellaneous and other Charges	L/S							**516.00**
								Total	**2500000.00**
	Rupees Twenty Five Lakh(s) Only								

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2018-19.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidayranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

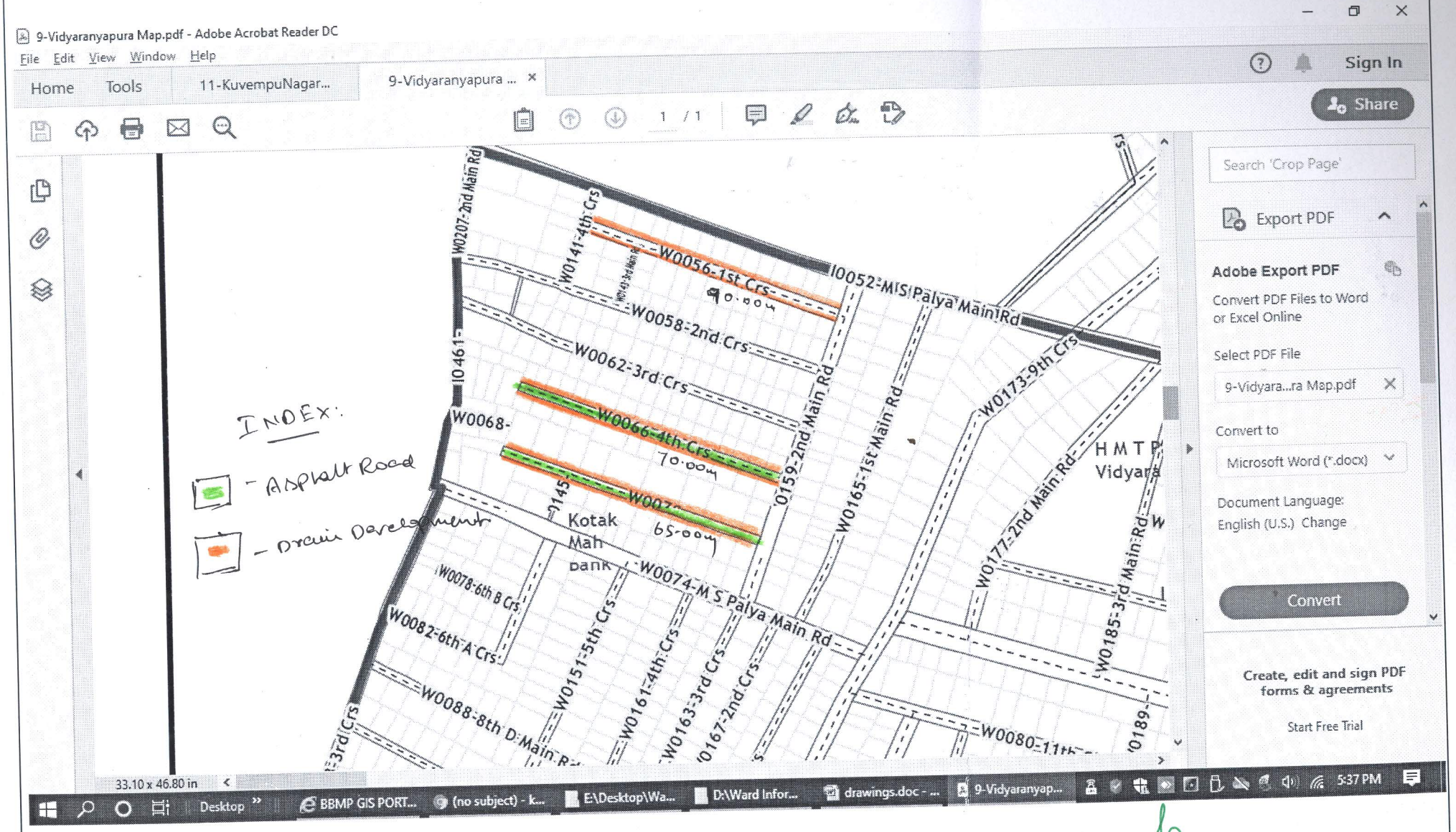
Administrative Approval
Accorded For RS25 wlatchenly
Head of A/C P3602
CER NO : 255 Dt: 27.03.2020

TA CE (YNK)

Technical Sanction
Accorded For RS25 in lakhs
Head of A/C P3602
CER NO : 365 Dt: 27.03.2020

TA CE (YNK)

Name Of Work: Asphalting to Roads at Balaji Layout and Surrounding areas in Ward No. 11 (Kuvempunagara).



Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Vidyaranyapura Sub Division